

CLAIMS

Please amend the claims as follows.

1. (Currently Amended) An optical scanner, comprising:
a document platform configured to support a document;
a light source configured to generate light for reflecting from the document;
a driving mechanism configured to drive movement of a movable component of the optical scanner, the driving of the movable component to control which portion of the document reflects the light;
a light sensing device configured to receive the reflected light;
an optical component located on a light path for the reflected light, the optical component configured to pivot;
a vibration sensor positioned to detect vibration that is caused at least in part by the driving mechanism and that is associated with the light sensing device;
a controller connected to the vibration sensor, the controller configured to produce an actuator signal corresponding to the sensed vibration; and
an actuator coupled to the controller and to the optical component, the actuator configured to pivot the optical component according to the actuator signal.
2. (Previously Presented) The optical scanner of claim 1, wherein the optical component comprises a mirror, and wherein pivoting the mirror dynamically re-positions the light path to account for the detected vibration.
3. (Cancelled)
4. (Currently Amended) A method, ~~of compensating for vibration of an optical device, the method~~ comprising:

providing light representing a portion of a document located on a document platform of ~~an~~ the optical device;

utilizing a driving mechanism to drive a movable component of the optical device, the driving of the movable component to control which portion of the document is illuminated;

directing light representing the document to a light sensing device;

measuring vibration associated with the light sensing device using a vibration sensor, the measured vibration caused at least in part by the driving mechanism;

converting the measured vibration into an actuator signal; and

adjusting a light path that intersects the light sensing device by repositioning an optical component according to the actuator signal, the adjustment of the light path maintaining a position of the provided light on the light sensing device.

5. (Previously Presented) The method of claim 4, wherein the optical component comprises a mirror, and wherein the mirror is pivoted according to the actuator signal.

6. (Cancelled)

7. (Currently Amended) An apparatus, comprising:

- means for supporting a document;
- means for reflecting light from a portion of the document, the reflected light representing the portion of the document;
- means for driving movement of a movable component of the apparatus to control which portion of the document reflects the light;
- means for guiding the reflected light to a light sensing device of the apparatus;
- means for sensing vibration at least partially attributable to operation of the driving means by detecting movement ~~a vibration~~ of the light sensing device of the apparatus;
- means for generating ~~converting the vibration to~~ an actuator signal that corresponds to the sensed vibration; and
- means for adjusting an optical assembly of the apparatus according to the actuator signal.

8. (Previously Presented) The apparatus of claim 7, wherein the means for adjusting the optical assembly comprises means for adjusting a mirror.

9-10. (Cancelled)

11. (Currently Amended) The optical scanner of claim 1, wherein the light sensing device comprises a charge-coupled device.

12. (Currently Amended) An apparatus, comprising:
a document platform configured to support a document;
a driving mechanism configured to drive movement of a movable component of the ~~apparatus optical scanner~~, the driving of the movable component to control which portion of the document is illuminated by a light source of the apparatus;
a light sensing device configured to receive light representing a portion of the document;
a vibration sensor configured to detect vibration that is both affecting of the light sensing device and at least partially attributable to operation of the driving mechanism, the vibration sensor configured to ~~and~~ produce a corresponding control signal; and
an optical assembly configured to correct for the detected vibration of the light sensing device according to the corresponding control signal.

13. (Currently Amended) The apparatus of claim 12, wherein~~[[:]]~~ the optical assembly comprises a mirror.

14. (Currently Amended) The apparatus of claim 12, wherein the light sensing device comprises a charge coupled device.

15. (Cancelled)

16. (Previously Presented) The optical scanner of claim 1, wherein the optical component is adjustable such that the sensed vibration is correctable independently of whether the light sensing device is adjustable.

17. (Previously Presented) The optical scanner of claim 16, wherein the vibration sensor is configured to detect vibration of the light sensing device in any of the X, Y, or Z directions.

18. (Previously presented) The method of claim 4, wherein adjustments to the light path are selected to cause the light path to intersect the light sensing device at a constant fixed location on the light sensing device.

19. (Previously Presented) The method of claim 4, wherein the light path is adjusted to correct for the measured vibration independently of whether the light sensing device is adjustable.

20. (Previously presented) The method of claim 19, further comprising measuring vibration of the light sensing device in any of the X, Y, or Z directions.

21. (Cancelled)

22. (Currently Amended) The apparatus of claim 7, wherein the means for sensing the vibration of the light sensing device further comprises means for monitoring ~~detecting~~ movement of the light sensor.

23-25. (Cancelled)

26. (Previously Presented) The apparatus of claim 16, wherein the vibration sensor is further capable of detecting movement in any of the X, Y, or Z directions.

27. (Cancelled)

28. (Currently Amended) The optical scanner of claim 1, wherein the movable component includes the optical sensor.

29. (Currently Amended) The apparatus of claim 7, wherein the reflecting means includes a mirror.

30. (Currently Amended) The apparatus of claim 29, wherein the reflecting means includes a plurality of mirrors.